L Number	Hira	Search Text	DB	Time stamp
1 Number	21176	(self\$dispers\$5 self adj dispers\$5 modif\$5	USPAT;	2004/05/25 13:08
		surface adj treat\$4) same pigment	US-PGPUB	2004/05/25 14:34
2	5959	((self\$dispers\$5 self adj dispers\$5 modif\$5 surface adj treat\$4) same pigment) and ink	USPAT; US-PGPUB	2004/05/25 14134
		and (water aqueous)		
3	929	(((self\$dispers\$5 self ad) dispers\$5 modif\$5	USPAT;	2004/05/25 13:09
		surface adj treat\$4) same pigment) and ink and (water agueous)) and glycol near ether	US-PGPUB	
4	3	((((selfSdispersS5 self adj dispersS5	USPAT	2004/05/25 14:34
		modif\$5 surface adj treat\$4) same pigment)	US-PGPUB	
		and ink and (water aqueous)) and glycol near ether) and (tetraethylene tripropylene) near		
		glycol near butyl near ether		
5	50261	(belmont johnson adam yatake osumi).in.	USPAT;	2004/05/25 13:13
. 1		((belmont johnson adam vatake osumi).in.)	US-PGPUB USPAT:	2004/05/25 13:13
6	262	and ((self\$dispers\$5 self adj dispers\$5	US-PGPUB	2004/05/25 13/13
		modifS5 surface adj treat\$4) same pigment)		
7	134	(((belmont johnson adam yatake osumi).in.)	USPAT;	2004/05/25 13:13
		and ((self\$dispers\$5 self adj dispers\$5 modif\$5 surface adi treat\$4) same pigment))	US-PGPUB	
		and (((self\$dispers\$5 self ad) dispers\$5		
		modif\$5 surface adj treat\$4) same pigment)		l
.	20	and ink and (water aqueous)) ((((belmont johnson adam yatake osumi).in.)	USPAT:	2004/05/25 13:13
°	3.0	and ((self\$dispers\$5 self adj dispers\$5	US-PGPUB	2004,05,25 13113
		modif\$5 surface adj treat\$4) same pigment))		
		and (((self\$dispers\$5 self ad) dispers\$5 modif\$5 surface ad  treat\$4) same pigment)		
		and ink and (water aqueous))) and		
		((((self\$dispers\$5 self adj dispers\$5		
		modif\$5 surface adj treat\$4) same pigment) and ink and (water aqueous)) and glycol near		
		ether)		
9	0	pigmetn and ink and (water aqueous)	USPAT;	2004/05/25 14:34
			US-PGPUB USPAT:	2004/05/25 14:34
10	29173	pigment and ink and (water aqueous)	US-PGPUB	2004/05/25 14:34
11	8291	(pigment and ink and (water aqueous)) and	USPAT;	2004/05/25 14:35
	2157	glycol near3 ether	US-PGPUB USPAT:	2004/05/25 14:38
12	2157	((pigment and ink and (water aquecus)) and glycol near3 ether) and (tetraethylene	US-PGPUB	2004/05/25 14:30
		tripropylene)		
13	133	(((pigment and ink and (water aqueous)) and	USPAT; US-PGPUB	2004/05/25 14:39
		glycol near3 ether) and (tetraethylene tripropylene)) and 106/31.86.ccls.	08-1/31/08	
14	28	((((pigment and ink and (water aqueous)) and	USPAT;	2004/05/25 15:19
		glycol near3 ether) and (tetraethylene	US-PGPUB	l
		tripropylene)) and 106/31.86.ccls.) and faison xa.	1	l
15	2103	((pigment and ink and (water aqueous)) and	USPAT;	2004/05/25 14:39
		glycol near3 ether) and (tetraethylene	US-PGPUB	
16	131	tripropylene) same glycol (((pigment and ink and (water aqueous)) and	USPAT;	2004/05/25 14:39
	131	glycol near3 ether) and (tetraethylene	US-PGPUB	
		tripropylene) same glycol) and		1
17	105	106/31.86.ccls. ((((pigment and ink and (water aqueous)) and	USPAT:	2004/05/25 15:19
**	102	olycol near3 ether) and (tetraethylene	US-PGPUB	
-		tripropylene)) and 106/31.86.ccls.  not		
		(((((pigment and ink and (water aqueous)) and qlycol near3 ether) and (tetraethylene	1	
j		tripropylene)) and 106/31.86.ccls.) and	1	
		faison.xa.)		
18	103	((((pigment and ink and (water aqueous)) and glycol near3 ether) and (tetraethylene	USPAT; US-PGPUB	2004/05/25 16:05
		glycol nears etner; and (tetraetnylene tripropylene) same glycol) and	OB-FGPUB	
		106/31.86.ccls.) not {((((pigment and ink		-
		and (water aqueous)) and glycol near3 ether)		
		and (tetracthylene tripropylene)) and 106/31.86.ccls.) and faison.xa.)		
Search His		25/04 6:10:49 PM Page 1		

19	41	([self5dispores5 self adj dispore55 modif55 surface adj treat(4) same pigment) and (((((pigment and ink and (vater aqueous)) and glycol near) ether) and (tetraethylene tripropylene) seme glycol) and (1674).86.col., not (((([rijsment and ink and i	USPAT; US-PGPUB	2004/05/25 16:09
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- L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 1559-34-8 REGISTRY
- CN 3,6,9,12-Tetraoxahexadecan-1-ol (7CI, 8CI, 9CI) (CA INDEX NAME)
- CN 2-(2-(2-Butoxyethoxy) ethoxy) ethoxy) ethoxyl et
- CN Tetraethylene glycol butyl ether CN Tetraethylene glycol monobutyl ether
- CN Tetraethylene glycol monobutyl et CN Tetraoxyethylene monobutyl ether
  - FS 3D CONCORD
  - MF C12 H26 O5
- CI COM
- LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CASRBACT, CHEMCATS, CHEMLIST, CSCHEM, DETHERM\*, IFICOB, IFIPAT, IFIUDB, MSDS-OHS, SPECINFO, TOXCENTER, USPATFULL
  - (\*File contains numerically searchable property data)
    Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*
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  DT.CA CAplus document type: Journal; Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation), PROC (Process); PRP (Properties); RACT (Reactant or reagent); USBS (Uses)
- RLD.P Roles for non-specific derivatives from patents: RACT (Reactant or reagent); USBS (Uses)
  RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
- RL.NP Roles from non-patents: AMST (Analytical study); BIOL (Biological study); OCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Proparation); PROC (Process); PRP (Proparation); PROC (Process); RAT (Reactant or respent); USES (Uses); NORL (Mo Fole in RAT); PRP (Proparation); NORL (Mo Fole in RAT); PRP (Proparation); PRP (Proparation); NORL (Mo Fole in RAT); PRP (Proparation); NORL (Mo Fole in RAT); PRP (Proparation); NORL (Mo Fole in RAT); NORL
- RLD.NP Roles for non-specific derivatives from non-patents: PREI (Preparation); PROC (Process)
- n-BuO-CH2-CH2-O-CH2-CH2-O-CH2-CH2-O-CH2-CH2-OH
  \*\*PDPOPERTY DATA AVAILABLE IN THE IDEAL FORMATT\*\*
  - 110 REFERENCES IN FILE CA (1907 TO DATE)
  - 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 110 REFERENCES IN FILE CAPLUS (1907 TO DATE)
    - O REFERENCES IN FILE CAPLUS (1907 TO DATE)

      3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'REGISTRY' ENTERED AT 15:04:59 ON 25 MAY 2004 Ll

L2

1 S TETRAETHYLENE GLYCOL BUTYL ETHER/CN 0 S TRIPROPYLENE GLYCOL BUTYL ETHER/CN